AC552A-2 and -4

2 and 4 Channel HDMI Splitter

Split and boost an HDMI Signal 2 or 4 ways
HDCP Compliant – Supports all standard HDTV Modes

CUSTOMER SUPPORT INFORMATION

Order **toll-free** in the U.S. 24 hours, 7 A.M. Monday to midnight Friday: **877-877-BBOX**
FREE technical support, 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**
Mail order: **Black Box Corporation**, 1000 Park Drive, Lawrence, PA 15055-1018
Web site: **www.blackbox.com** • E-mail: **info@blackbox.com**

UMA1110 Rev. n/c

Trademarks Used in this Manual

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FCC and Canadian Dept of Communications Radio Frequency interference statements

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par le ministère des Communications du Canada.

European Union Declaration of Conformity

This product complies with the requirements of the European EMC directive 89/336/EEC

CE

Normas Oficiales Mexicanas (NOM)
Electrical Safety Statement
INSTRUCCIONES DE SEGURIDAD

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
4. Todas las instrucciones de operación y uso deben ser seguidas.
5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc.
6. El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá a lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquea la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.
10. El equipo eléctrico deber ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser connectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.
12. Precaución debe ser tomada de tal manera que la tierra fisica y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las lineas de energia.
16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.
17. Cuidado debe ser tomado de tal manera que objectos liquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:

A: El cable de poder o el contacto ha sido dañado; u
B: Objectos han caído o líquido ha sido derramado dentro del aparato; o
C: El aparato ha sido expuesto a la lluvia; o
D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
E: El aparato ha sido tirado o su cubierta ha sido dañada.

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1. Introduction

1.1 General

Thank you for purchasing Black Box Model AC552A HDMI Video Splitter. This device is used to split and boost Video/Audio HDMI Signal 2 or 4 ways. The unit is HDCP (High-Bandwidth Digital Content Protection) compliant and supports all standard HDTV modes to 1080p.

The unit can drive output cables to 12 meters (40 feet). The device is a high-performance unit, that digitally splits and buffers the input signal for a 100% perfect image and sound reproduction on all outputs.

1.2 Features

- Perfect solution for high-end home-theatre setups
- Splits an HDMI source to 2 or 4 outputs without loss
- Supports PC & HDTV, VGA to UXGA & 480p to 1080p
- Allows each output to work independently when connected to different HDTV displays
- Can be cascaded up to 3 levels
- Can be used to split a DVI source for DVI displays by using HDMI-to-DVI adapter cables
- Small compact size
- LED for power-on indication
- Buffered outputs can run up to 12 meters (40 feet) at 1080i
- Plug and play installation – takes minutes to setup
- Bandwidth of 1.65 Gbps (Giga bits / second) for sharp digital image
- HDMI1.1, HDCP 1.1, and DVI1.0 Compliant

2. Installation

2.1 Package Contents

- ·One S Splitter unit
- ·One Universal Switching Power Supply
- ·This User's Manual

Cables are not supplied with this unit. Please order those separately

2.2 Controls, Functions, and Indicators

2.2.1 AC552A-2 2-Channel Splitter

Front Panel

Rear Panel

Input Power Indicator

The unit does not have an on-off button. This light comes on as soon as you plug in the power adapter.

HDMI Video Input and Outputs #1 & #2

All video connectors are located on the rear panel. You must have at least one display connected to output #1

DC Input Power Jack

Plug the included power supply to this jack. The LED on the front panel should come on indicating power is on. NEVER SUBSTITUTE ANY OTHER POWER SUPPLY AS THIS MAY DESTROY THE UNIT.

2.2.2 AC552A-2 Expansion (Cascading to expand # of outputs)

You can use either output to connect the splitter to another splitter to expand the # of outputs

2.2.3 AC552A-4 4-Channel Splitter

Front Panel

Rear Panel

Input Power Indicator

The unit does not have an on-off button. This light comes on as soon as you plug in the power adapter.

Outputs 1 through 3

These outputs are located on the front panel as shown

HDMI Input and Output #4

These connectors are located on the rear panel to keep the unit size as small as possible

DC Input Power Jack

Plug the included power supply to this jack. The LED on the front panel should come on indicating power is on. NEVER SUBSTITUTE ANY OTHER POWER SUPPLY AS THIS MAY DESTROY THE UNIT.

2.2.4 AC552A-4 Expansion (Cascading to expand # of outputs)

You can use Output #4 to connect the splitter to another splitter to expand the # of outputs

3. Troubleshooting

There are no field serviceable parts or circuits in the device. If you think that the device is malfunctioning, please contact Black Box.

Contacting Black Box

If you determine that your extender is malfunctioning, do not attempt to repair the unit. Contact Black Box at 724-746-5500. Before you do,

make a record of the problem. We will be able to provide more efficient and accurate assistance if you have a complete description.

Shipping and Packaging

If you need to transport or ship your Switch:

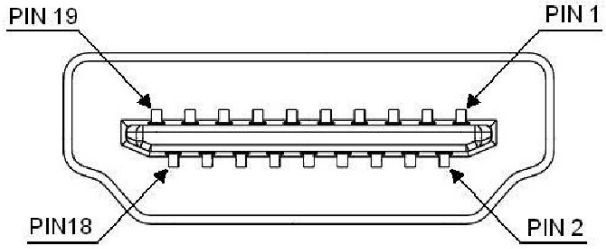
- Package it carefully. Use the original container if possible.
- Before you shipping the unit, contact us to get a Return Authorization (RA) number.

4. Specifications

Resolutions	Output resolution is the same as input resolution. ***Supported PC Resolution: VGA to UXG***) ***Supported HD (YPbPr) Resolutions: 480i to 1080p***
HDMI Data	1.65 Gbps (single link) - HDMI 1.1 compliant
Max. Distance	10 meter on input and 12 meter on output
Compliance	CE; FCC Part 15 Subpart B Class A, IC Class
Max. Altitude	10,000 ft. (3048 m)
Temperature	Operating: 32 to 122°F (0 to 50°C); Storage: –40 to +185°F (–40 to +85°C)
Humidity	Up to 95% non-condensing
Enclosure	Metal
MTBF	85,000 hours (calculated estimate)
Power	From utility-power AC552A-2 Voltage: 9 V DC @ 1.7 A (2.5mm jack) AC552A-4 Voltage: 5 V DC @ 2.6 A (2.1mm jack)
Dimensions	0.85" High x 7.5" Wide x 3.75" Deep
Weight	1.1 lbs (17 Ounces)

5. Appendix

HDMI Connector Pin Assignment



Pin #	Signal	Pin #	Signal
1	TMDS Data 2+	11	TMDS Clock Shield
2	TMDS Data 2 Shield	12	TMDS Clock -
3	TMDS Data 2-	13	CEC
4	TMDS Data 1+	14	Reserved (N.C. on device)
5	TMDS Data 1 Shield	15	SCL
6	TMDS Data 1-	16	SDA
7	TMDS Data 0+	17	DDC/CEC Ground
8	TMDS Data 0 Shield	18	+5 Power
9	TMDS Data 0-	19	Hot Plug Detect
10	TMDS Clock+		

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